

A NEW IDEA

See
DETAIL
INSIDE-
Insert in
SWEETS-
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ANDERSEN FRAME CORPORATION

16-L
7-91

THE NEW ANDERSEN FRAME

FOR MASONRY CONSTRUCTION

REDUCES AIR LEAKAGE

AROUND FRAMES

42%

THE enclosed detail sheets show the improved design of the Andersen Box Frame with special mortar clinch grooves. Will you insert these sheets in your copy of Sweet's Architectural Catalogue at the pages indicated?

Tests recently made at the University of Wisconsin Experimental Laboratories show a reduction of air infiltration between frame and masonry of 42% as compared to the ordinary box frame with flat surfaces on the sides and back. The Engineer's report shows an estimated saving of one-third of a pound of coal per day for one opening under average winter conditions. You, of course, appreciate what this would mean in a large apartment, hotel, or school building in reduced radiation and fuel requirements, as well as other factors such as the elimination of damage to walls, draperies, and furnishings, and the added comfort of the tenant.

This improved detail of box frame can now be supplied promptly by any lumber and millwork dealer. No. 171 is made for $1\frac{3}{8}$ in. sash and No. 172 for $1\frac{3}{4}$ in. sash. Because of standardized large quantity production you are assured of superior milling and materials, (including Genuine White Pine sills and brick mouldings) and other exclusive Andersen features such as the Andersen Noiseless Sash Pulley. Prices are reasonable and no increase has been made for the new design.

Designed to Meet Architects' Specifications

Architects have always specified and insisted on weather-tightness around window frames in masonry construction, even when this result has cost time and money.

See Details on Enclosed Sheets

Realizing the need for weathertight construction at a reasonable cost, the engineers of the Andersen Frame Corporation have experimented until they have at last perfected and are now offering architects this brand new idea in masonry window frame construction.

Features of the Frame

The new Andersen Box Frame has three major features that will appeal to the architect seeking weathertight construction. These are:

1. The wooden frame is made with a large number of special mortar clinch grooves. Experiments have proved that even after the normal shrinkage of the materials there will be enough contact and projection of mortar into each groove so that the air will have a most tortuous route to follow before it can get into the interior of the building. The large number of grooves insures contact in a percentage of them even when the mortar is carelessly slushed against the frame.

The stopping of air leakage is furthered by the fact that the grooves are constructed with perpendicular walls, so that even when there is a gap between the plaster key and the bottom of the groove there will still be a contact between the plaster and the side walls. It has been found that dust and dirt carried by air will lodge in the small cracks, thus forming a natural caulking which increases rather than decreases the weathertightness with age.

2. Additional safeguard against air leakage is provided by a recess or space for a strip of oakum or any similar recommended caulking material to be inserted between the blind stop and brick molding when the frame is nailed up. Thus the edge that projects and is not held by the brick moulding bulges up to give opportunity to bed the brick in the caulking as laid. This gives an opportunity for much cheaper caulking than any present method.
3. Another desirable feature is an extra plow provided to permit setting back the extension jamb where reveal or narrow inside trim is desired.

Architects have already evinced a great interest in the economy and efficiency of the new Andersen Box Frame, and anyone wishing more information concerning it can obtain it from any Andersen dealer or by writing to the

ANDERSEN FRAME CORPORATION

BAYPORT, MINNESOTA



GENUINE WHITE PINE SILLS AND CASINGS

Insert Enclosed Detail Sheets in Sweet's



LEE PLAZA APARTMENT HOTEL
DETROIT MICHIGAN
RALPH T. LEE, Owner and Builder
Andersen Box Frames Used Throughout



FOREST CLOSE
FOREST HILLS, LONG ISLAND
A Cord Meyer Development
ROBERT TAPPAN Architect
Andersen Box Frames Used Throughout

Suggestions for Adapting the Standard Andersen Detail to Various Types of Wall Construction

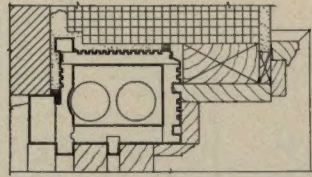


PLATE 1. 13-inch brick and tile wall with inside reveal and narrow trim. Note position of anchor strip to give regular 5 1/4-inch jamb width.

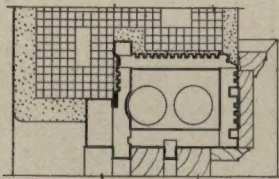


PLATE 3. Showing 8-inch tile with special jamb block and plaster on tile. Anchor strip in position to give regular 5 1/4-inch jamb width.

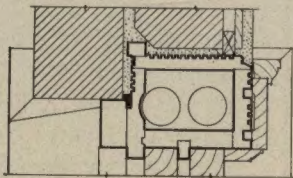


PLATE 5. 8-inch brick or tile wall with lath and plaster on 1/2-inch furring. Note position of anchor strip to give 5 1/4-inch jamb width.

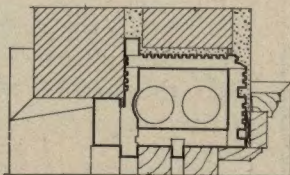


PLATE 7. Narrow inside trim with 8-inch wall, same as Plate 6. Clinch grooves and extra rabbet in back of frame make it possible to bring plaster over to thin ground as shown.

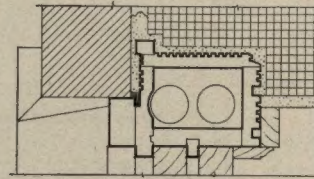


PLATE 2. 13-inch brick and tile wall with inside plaster reveal and narrow wood trim. Note position of anchor strip to give regular 5 1/4-inch jamb width.

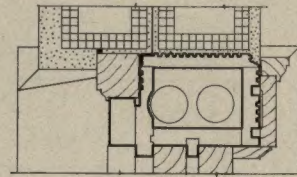


PLATE 4. Standard block or tile wall using special moulding with regular moulding No. 402. Note use of special metal anchor strip in mortar joint.

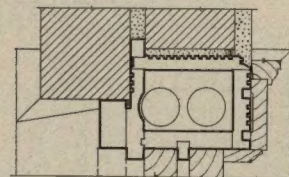


PLATE 6. Using narrower jamb width for 8-inch brick or tile wall with plaster on masonry. Note position of anchor strip to give narrower jamb width.

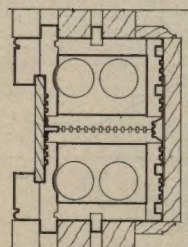
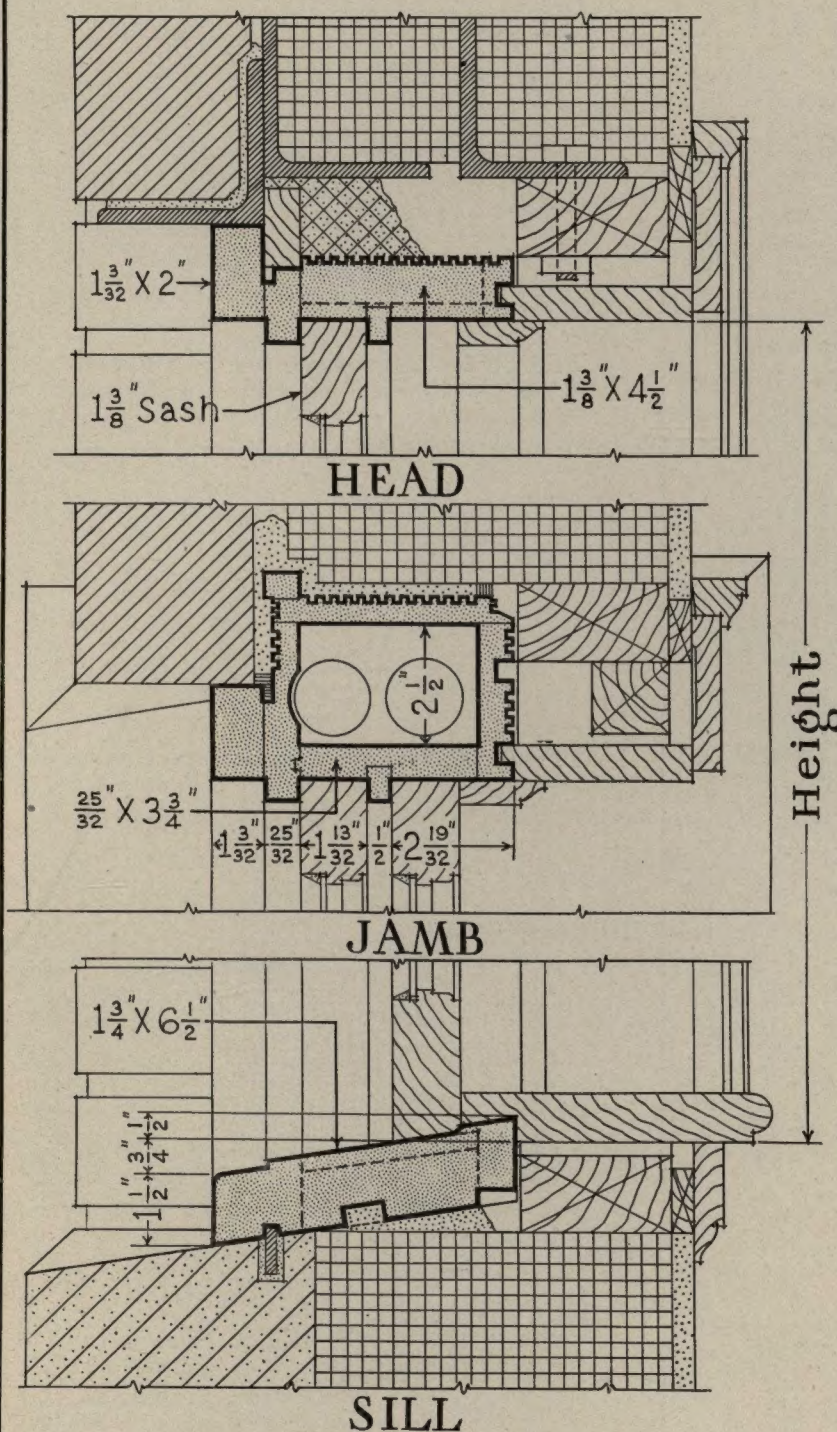


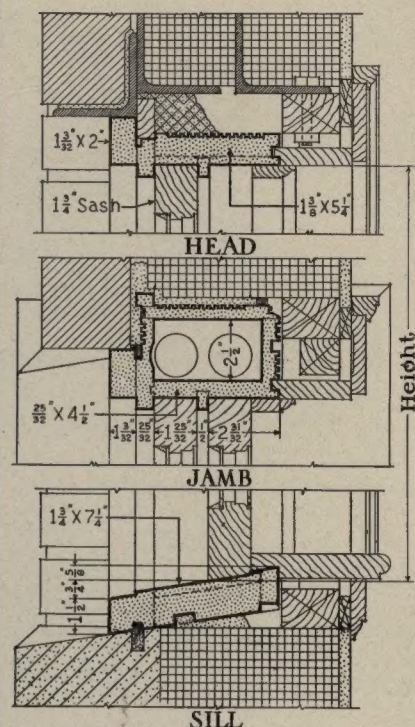
PLATE 8. Suggestion for making mullion with two singles. No. 403 moulding shown with thin casing between. (This construction used in Lee Plaza Hotel, Detroit, with terra cotta between mouldings.)

Andersen
FRAME NO. 171
 For $1\frac{3}{8}$ " Sash



Scale—Three inches equal one foot

Andersen
FRAME NO. 172
 For $1\frac{3}{4}$ " Sash



Scale— $1\frac{1}{2}$ inch equals one foot

STAFF BEAD VARIATIONS

For details of other staff beads which may be substituted for plain staff beads here shown for frames No. 171 and No. 172, see Andersen Page No. 22.

MULLIONS FOR MULTIPLE WINDOWS

To specify the mullion to fit the particular frame selected add the letter "M" to the frame number, thus 171-M, 172-M.

For Details see Andersen Page 21

DOUBLE HUNG WINDOW FRAMES
FOR MASONRY CONSTRUCTION

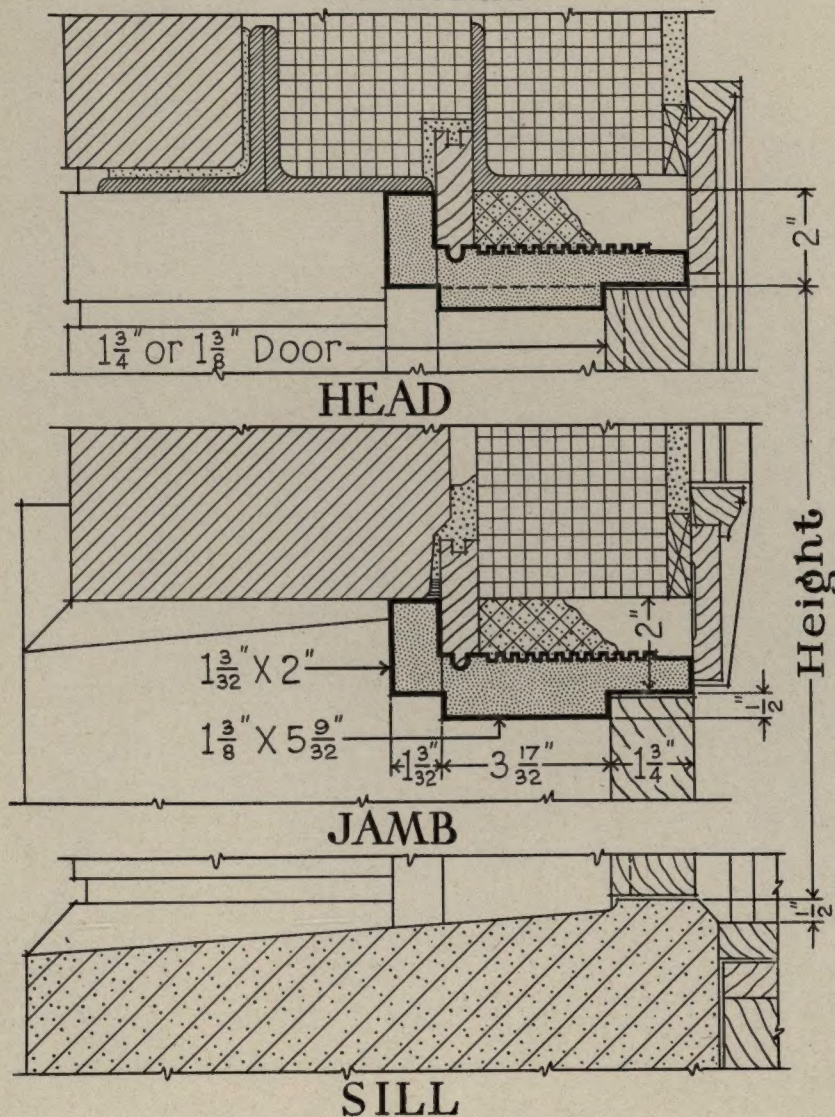
Specifications on Andersen Page 4

Patent Pending

Frame Sizes on Andersen Page 7

Andersen FRAME NO. 371

No Wood Sill

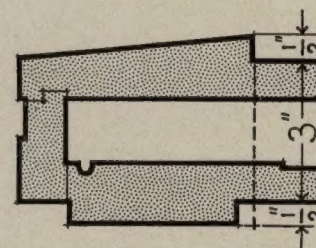


Scale—Three inches equal one foot.

STAFF BEAD VARIATIONS

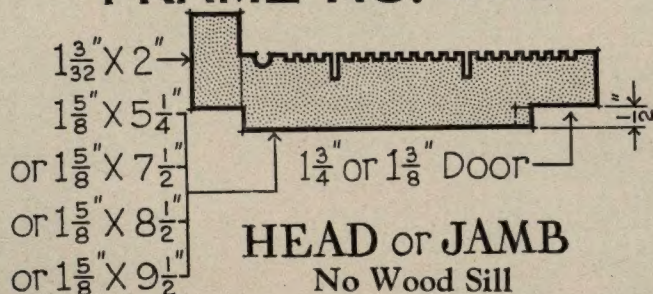
For details of other staff beads which may be substituted for plain staff beads here shown for frames Nos. 371 and 372 see Andersen Page 22.

TYPICAL TRANSOM BAR



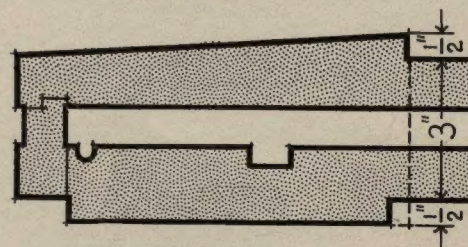
Transom bars are made to fit all exterior trim and jamb variations. To specify the transom bar to fit the particular frame selected add the letter "T" to the frame number, thus 371-T.

FRAME NO. 372



HEAD or JAMB
No Wood Sill

TRANSOM BAR



No. 372-T for Frame No. 372

OUTSIDE DOOR FRAMES FOR MASONRY BUILDINGS

Specifications on Andersen Page 4

Patent Nos. 1,595,958 and 1,648,712

Frame Sizes on Andersen Page 7

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